INTERNATIONALSEARCHREPORT

International application No. PCT/JP2005/020687

CLASSIFICATION OF SUBJECT MATTER

Int.Cl. H01L51/50(2006.01), G09F9/30(2006.01), H01L27/32(2006.01)

According to International Patent Classification (IPC) or to both national classification and IPC

FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl. H01L51/50(2006.01), G09F9/30(2006.01), H01L27/32(2006.01)

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
Published examined utility model applications of Japan 1922-1996
Published unexamined utility model applications of Japan 1971-2006
Registered utility model specifications of Japan 1996-2006
Published registered utility model applications of Japan 1994-2006

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

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C. DOCUM	ENTS CONSIDERED TO BE RELEVANT			
Category*	Citation of document, with indication, where appropriate approximation of the company of the com	Relevant to claim No.		
P, X	JP 2006-24791 A (KIDO JUNJI 2006.01.26, All Claims, Full Data Reported)	1-3,7,9,11, 12 4-6,8,10		
P,X JP 2005-166637 A (KIDO JUNJ 2005.06.23,All Claims, Full P,A & CN 1620212 A & EP 1530245 Al A JP 2003-272860 A (KIDO JUNJ 2003.09.26 claims paragraph & CN 1447629 A & EP 1351558 & US 2003-189401 Al		text, Graph 2 A2 & US 2005-098207 II et al) 1 60,61	1-3,7,9,11, 12 4-6,8,10 1-12	
Furth	er documents are listed in the continuation of Box C.	See patent family annex.		
"A" docum consid "E" earlier nation "L" docum is cite specia "O" docum means "P" docum	I categories of cited documents: nent defining the general state of the art which is not ered to be of particular relevance application or patent but published on or after the inter- al filing date nent which may throw doubts on priority claim(s) or which d to establish the publication date of another citation or other il reason (as specified) nent referring to an oral disclosure, use, exhibition or other ent published prior to the international filing date but later the priority date claimed	"X" document of particular relevance; be considered novel or cannot inventive step when the document "Y" document of particular relevance; be considered to involve an invent combined with one or more of	the claimed invention cannot be considered to involve an is taken alone the claimed invention cannot tive step when the document is other such documents, such erson skilled in the art	
	e actual completion of the international search	Date of mailing of the international s	earch report	
	02.02.2006	21.02.2	2006	
	mailing address of the ISA/JP Japan Patent Office sumigaseki, Chiyoda-ku, Tokyo 100-8915, Japan	Authorized officer Tsutomu Kosugo Telephone No. +81-3-3581-1101	2V 9313 Ext. 3271	
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A	WO 04/094389 A (SEMICONDUCTOR ENERGY LAB) 2004.11.04, Claims & EP 1616864 A1 & US 2005- 186446 A1					4-6,8,9
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